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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/597,146	06/20/2000	Daiki Kadomatsu	862.C1941	5114
5514	7590	11/05/2004	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			BAUGH, APRIL L	
			ART UNIT	PAPER NUMBER
			2141	

DATE MAILED: 11/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/597,146

Applicant(s)

KADOMATSU, DAIKI

Examiner

April L Baugh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-9,11-14,16-19,21-24,26-29 and 31 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-9,11-14,16-19,21-24,26-29 and 31 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Response to Amendment

Applicant has amended claims 1-3, 5-9, 11-14, 16-19, 21-24, 26-29, 31, therefore claims 1-3, 5-9, 11-14, 16-19, 21-24, 26-29, and 31 are now pending.

Response to Arguments

1. Applicant's arguments with respect to claims 1-3, 5-9, 11-14, 16-19, 21-24, 26-29, and 31 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1-3, 5-9, 11-14, and 16 rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 5,699,170 to Yokose et al. in view of Saito (US Patent 5,757,379) and further in view of Ett (US Patent 5,227,893).

Regarding claim 1, Yokose et al. teaches an image communication apparatus comprising: means for reading an image and generating image data representing the image (column 2, lines 18-21); means for compressing the image data (column 9, lines 33-37) and storing the

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compressed image data in memory (column 6, lines 59-63); and means for transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Referring to claim 2, Yokose et al. teaches an image communication apparatus comprising: means for compressing the image data (column 9, lines 33-37) and storing the compressed image data in a memory (column 6, lines 59-63); and means for transmitting the compressed image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information

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for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Regarding claim 3, Yokose et al. teaches an image communication apparatus comprising: means for reading an image and successively storing image data representing the image in a buffer (column 2, lines 18-21 and column 15, lines 58-63); means for extracting the image data from the buffer in prescribed area units of the image; means for compressing the image data in the area units and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto. Saito teaches means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto because

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this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Regarding claim 5, Yokose et al. teaches an image communication apparatus comprising: means for reading an image and generating image data representing the image (column 2, lines 18-21); means for compressing the image data and storing the compressed image data in a memory (column 6, lines 59-63 and column 9, lines 33-37); and means for transmitting the image data that has been stored in the memory without expanding or compressing the image data (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines

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26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Referring to claim 6, Yokose et al. teaches an image communication method comprising the steps of an image that has been read (column 2, line 26-28); compressing the image data and storing the compressed image data in a memory (column 6, lines 59-63 and column 9, lines 33-37); and transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a

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header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Regarding claim 7, Yokose et al. teaches an image communication method comprising the steps of image data that has been entered (column 2, line 26-28); compressing the image data and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Referring to claim 8, Yokose et al. teaches an image communication method comprising: a reading step, of reading an image and generating image data representing the image (column 2,

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lines 18-21); a storage step, of compressing the image data and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); a transmitting step, of transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information

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for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Regarding claim 9, Yokose et al. teaches an image communication method comprising the steps of: reading an image and successively storing image data representing the image in a buffer (column 2, lines 18-21 and column 15, lines 58-63); extracting the image data from the buffer in prescribed area units of the image; compressing the image data in the area units and storing the compressed image data in a memory (column 6, lines 59-63 and column 9, lines 33-37); and transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto. Saito teaches means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Regarding claim 11, Yokose et al. teaches an image communication method comprising the step of image data representing an image that has been read (column 2, line 26-28); compressing the image data and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and transmitting the image data that has been stored in the memory without expanding or compressing the image data (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for

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compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Referring to claim 12, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in an image communication apparatus in order to transmit image data: means for compressing the image data and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines

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26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Regarding claim 13, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in an image communication apparatus in order to transmit image data that has been entered: means for compressing the image data and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for transmitting the image data that has been stored in the memory (column 2, lines 35-37).

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Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Referring to claim 14, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in an image communication apparatus,

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which has means for reading an image and successively storing image data representing the image in a buffer, in order to transmit the image data (column 2, lines 18-21 and column 15, lines 58-63); means for extracting the image data from the buffer in prescribed area units of the image; means for compressing the image data in the area units and storing the compressed image data in a memory (column 6, lines 59-63 and column 9, lines 33-37); and means for transmitting the image data that has been stored in the memory (column 2, lines 35-37).

Yokose et al. does not teach means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto. Saito teaches means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for determining whether transmission information for a header or footer is to be added onto each item of image data extracted; means for adding the transmission information onto the image data that has been determined to have the transmission information added thereto because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data

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form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

Referring to claim 16, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in order to transmit image data that has been entered: means for compressing the image data and storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for transmitting the image data that has been stored in the memory without expanding or compressing the image data (column 2, lines 35-37).

Yokose et al. does not teach means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added. Saito teaches means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added (Fig. 4 and column 2, lines 29-35 and column 5, lines 26-34 and 39-48). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by means for adding transmission information for a header or footer onto the image data; means for compressing the image data onto which the transmission information has been added because

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this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Saito does not teach means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data. Ett teaches means for embedding transmission information for a header or footer in the image data so that the transmission information and the image data form a single body of image data (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Saito by embedding transmission information for a header or footer in the image data because this decreases processing time by embedding the information prior to compression.

4. Claims 17-19, 21-24, 26-29, and 31 rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 5,699,170 to Yokose et al. in view of Retter et al. (US Patent 5,379,070) and further in view of Ett (US Patent 5,227,893).

Regarding claim 17, Yokose et al. teaches an image communication apparatus comprising: means for reading an image and generating image data representing the image (column 2, lines 18-21); means for compressing the image data and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37) and means for detecting the marker from the compressed image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker

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resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Referring to claim 18, Yokose et al. teaches an image communication apparatus comprising: means for compressing image data that has been entered and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig. 1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Regarding claim 19, Yokose et al. teaches an image communication apparatus comprising: means for reading an image and successively storing image data representing the image in a buffer (column 2, lines 18-21 and column 15, lines 58-63); means for extracting the

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image data from the buffer in prescribed area units of the image; means for compressing each item of image data that has been extracted and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the compressed image data that has been stored in the memory, (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64), which has been compressed according to a compression format identical to the compression format of the image data, and transmitting this image data (column 2, lines 35-37).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one

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of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Regarding claim 21, Yokose et al. teaches an image communication apparatus comprising: means for reading an image and generating image data representing the image (column 2, lines 18-21); means for compressing the image data and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the image data that has been stored in the memory, (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64), and transmitting the compressed image data without expanding or re-compressing it, wherein the compressed data has been compressed according to a compression format identical with the compression format of the image data(column 2, lines 35-37).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer

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and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Referring to claim 22, Yokose et al. teaches an image communication method comprising the steps of: compressing image data that has been read and adding on a marker; storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and detecting the marker from the compressed image data that has been stored in the memory, (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the

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art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Regarding claim 23, Yokose et al. teaches an image communication method comprising the steps of compressing image data that has been entered and adding on a marker; storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and detecting the marker from the compressed image data that has been stored in the memory, (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with

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data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Referring to claim 24, Yokose et al. teaches an image communication method comprising the steps of reading an image and successively storing image data representing the image in a buffer (column 2, lines 18-21 and column 15, lines 58-63); extracting the image data from the buffer in prescribed area units of the image; compressing each item of image data that has been extracted and adding on a marker; storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and detecting the marker from the image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Referring to claim 26, Yokose et al. teaches an image communication method comprising the steps of: compressing image data that has been read and adding on a marker; storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and

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detecting the marker from the image data that has been stored in the memory, (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64), and transmitting this image data without expanding or compressing it (column 2, lines 35-37).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the compressed image data with data relating to transmission information (Fig. 1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Regarding claim 27, Yokose et al. teaches an storage medium storing a program for causing a computer to function as the following means in an image communication apparatus in order to transmit image data: means for compressing the image data and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image

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communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Referring to claim 28, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in an image communication apparatus in order to transmit image data that has been entered: means for compressing image data that has been entered and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig.1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Regarding claim 29, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in an image communication apparatus, which has means for reading an image and successively storing image data representing the image in a buffer (column 2, lines 18-21 and column 15, lines 58-63), in order to transmit the image data: means for extracting the image data from the buffer in prescribed area units of the image; means for compressing each item of image data that has been extracted and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64).

Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with

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data relating to transmission information (Fig. 1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Regarding claim 31, Yokose et al. teaches a storage medium storing a program for causing a computer to function as the following means in an image communication apparatus in order to transmit image data: means for compressing the image data and adding on a marker; means for storing the compressed image data in memory (column 6, lines 59-63 and column 9, lines 33-37); and means for detecting the marker from the image data that has been stored in the memory (column 2, line 26-28 and column 13, lines 33-39 and column 14, lines 61-64), and transmitting this image data without expanding or compressing it (column 2, lines 35-37).

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Yokose et al. does not teach adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information. Retter et al. teaches adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information (Fig. 1 and column 1, lines 33-40 and column 4, lines 16-23 and 34-36 and 66-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. by adding on a marker that is for adding on transmission information for a header or footer and replacing, on the basis of a position at which the marker resides, some of the image data with data relating to transmission information because this decreases image transmission time by eliminating decompression and recompression before transmission.

Yokose et al. in view Retter et al. does not teach compressed data in which the transmission information is embedded. Ett teaches compressed data in which the transmission information is embedded (column 2, lines 13-17). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image communication apparatus of Yokose et al. in view Retter et al. by having compressed data in which the transmission information is embedded because this decreases processing time by embedding the information prior to compression.

Conclusion

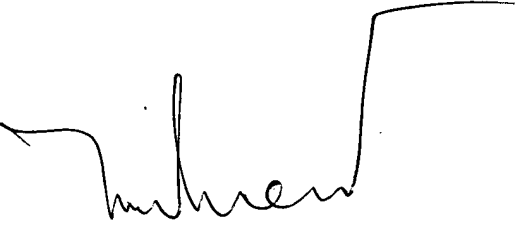
1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patent is cited to further show the state of the art with respect to image communication apparatus' in general: Bloomberg, Sandford, II et al. Matsumura et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to April L Baugh whose telephone number is 571-272-3877. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER